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|--|--|---|
| FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE<br>(REV. 2-2005)                        |  | ATTORNEY'S DOCKET NUMBER<br>271227US2XPCT                     |
| TRANSMITTAL LETTER TO THE UNITED STATES<br>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br>CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 |  | U.S. APPLICATION NO. (If known, see 37 CFR 1.5)<br>10/532,080 |

|   |  |  |
|---|--|--|
| INTERNATIONAL APPLICATION NO.<br>PCT/FR03/03109 | INTERNATIONAL FILING DATE<br>21 October 2003 | PRIORITY DATE CLAIMED<br>21 October 2002 |
|---|--|--|

TITLE OF INVENTION  
METHOD AND DEVICE FOR SYNTHESISING AN ELECTRICAL ARCHITECTURE

APPLICANT(S) FOR DO/EO/US  
Samuel BOUTIN et al.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☐ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☒ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4. ☐ The US has been elected (Article 31).
5. ☐ A copy of the International Application as filed (35 U.S.C. 371 (c)(2))
  - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☒ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
11. ☐ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☐ A copy of the International Search Report (PCT/ISA/210).

Items 13 to 23 below concern document(s) or information included:

13. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☒ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☐ A substitute specification.
18. ☒ A power of attorney and/or change of address letter.
19. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
20. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
21. ☐ A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).
22. ☐ Express Mail Label No.
23. ☒ Other items or information:

Drawings (20 sheets) Declaration of Christophe DANG-VAN-NHAN  
Response to Notice of Missing Requirement Under 35 U.S.C 371  
Copy of Notification of Missing Requirements

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

|  |              |  |            |   |                |
|--|--------------|--|------------|---|----------------|
| U.S. APPLICATION NO (if known, see 37 CFR 1.5)<br><b>10/532,080</b>  |              | INTERNATIONAL APPLICATION NO.<br><b>PCT/FR03/03109</b>                 |            | ATTORNEY'S DOCKET NUMBER<br><b>271227US2XPCT</b>  |                |
| The following fees are submitted:  |              |  |            | <b>CALCULATIONS</b>   | <b>PTO USE</b> |
| 24. <input type="checkbox"/> Basic national fee . . . . .  |              |  |            | \$300   | \$             |
| 25. <input type="checkbox"/> Examination fee<br>If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4). . . . .  |              |  |            | \$100   | \$             |
| All other situations. . . . .  |              |  |            | \$200   | \$             |
| 26. <input type="checkbox"/> Search fee . . . . .  |              |  |            |   |                |
| Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority . . . . .  |              |  |            | \$100   |                |
| International Search Report prepared and provided to the Office . . . . .  |              |  |            | \$400   |                |
| All other situations. . . . .  |              |  |            | \$500   | \$             |
| <b>TOTAL OF 24, 25 and 26 =</b>  |              |  |            |   | \$             |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.   |              |  |            |   |                |
| Total Sheets   | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole) | RATE       |   |                |
| - 100 =  | 0 /50 =      | 0  | x \$250.00 | \$  | \$0.00         |
| Surcharge of \$130.00 for furnishing the oath or declaration later than months from the earliest claimed priority date (37 CFR 1.492(e)).  |              |  |            | \$  | \$0.00         |
| CLAIMS   | NUMBER FILED | NUMBER EXTRA   | RATE       |   |                |
| Total claims   | 8 - 20 =     | 0  | x \$50.00  | \$  | \$0.00         |
| Independent claims   | 2 - 3 =      | 0  | x \$200.00 | \$  | \$0.00         |
| MULTIPLE DEPENDENT CLAIMS (if applicable) <input type="checkbox"/> + \$360.00  |              |  |            | \$  | \$0.00         |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>   |              |  |            | \$  | \$0.00         |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.   |              |  |            | \$  | \$0.00         |
| <b>SUBTOTAL =</b>  |              |  |            | \$  | \$0.00         |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).  |              |  |            | \$  | \$0.00         |
| <b>TOTAL NATIONAL FEE =</b>  |              |  |            | \$  | \$0.00         |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +  |              |  |            | \$  | \$0.00         |
| <b>TOTAL FEES ENCLOSED =</b>   |              |  |            | \$  | \$0.00         |
|  |              |  |            | Amount to be  | \$             |
|  |              |  |            | Amount to be  | \$             |
| <p>a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of _____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Director is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>15-0030</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input checked="" type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p> |              |  |            |   |                |
| <p><b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.</p> <p>SEND ALL CORRESPONDENCE TO:</p> <p>Customer Number<br/>22850</p>   |              |  |            |   |                |
|  |              |  |            | <p><i>Corwin Paul Umbach</i></p> <p>SIGNATURE</p> <p>Marvin J. Spivak</p>                                   |                |
|  |              |  |            | <p>NAME</p> <p>24,913 Corwin P. Umbach, Ph.D.</p> <p>REGISTRATION NUMBER</p> <p>Registration No. 40,211</p> |                |

Docket No. 271227US2X PCT  
IN RE APPLICATION OF: Samuel BOUTIN, et al.  
SERIAL NO: 10/532,080  
FILED: April 21, 2005  
FOR: METHOD AND DEVICE FOR SYNTHESISING AN ELECTRICAL ARCHITECTURE

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:  
Transmitted herewith is an amendment in the above-identified application.

- ☒ No additional fee is required
- ☐ Small entity status of this application under 37 C.F.R. §1.9 and §1.27 is claimed.
- ☒ Additional documents filed herewith: PCT Transmittal Letter (2<sup>nd</sup> submission)/Declaration/Drawings (20 sheets)  
English Translation of Specification/Preliminary Amendment  
Declaration of Christophe DANG-VAN-NHAN  
Response to Notice of Missing Requirement Under 35 U.S.C 371  
Copy of Notification of Missing Requirements

The Fee has been calculated as shown below:

| CLAIMS      | CLAIMS<br>REMAINING |  | HIGHEST<br>NUMBER<br>PREVIOUSLY<br>PAID | NO.<br>EXTRA<br>CLAIMS | RATE      | CALCULATIONS |
|-------------|---------------------|--|---|------------------------|-----------|--------------|
| TOTAL       | 8                   | MINUS  | 20                                      | 0                      | x \$50 =  | \$0.00       |
| INDEPENDENT | 2                   | MINUS  | 3                                       | 0                      | x \$200 = | \$0.00       |
|             |                     | <input type="checkbox"/> MULTIPLE DEPENDENT CLAIMS                   |   |                        | + \$360 = | \$0.00       |
|             |                     | TOTAL OF ABOVE CALCULATIONS  |   |                        |           | \$0.00       |
|             |                     | <input type="checkbox"/> Reduction by 50% for filing by Small Entity |   |                        |           | \$0.00       |
|             |                     | <input type="checkbox"/> Recordation of Assignment                   |   |                        | + \$40 =  | \$0.00       |
|             |                     | TOTAL  |   |                        |           | \$0.00       |

- ☐ A check in the amount of **\$0.00** is attached.
- ☐ Credit card payment form is attached to cover the fees in the amount of **\$0.00**
- ☒ Please charge any additional Fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.
- ☒ If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. §1.136, and any additional fees required under 37 C.F.R. §1.136 for any necessary extension of time may be charged to Deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.



Marvin J. Spivak

Registration No. 24,913  
**Corwin P. Umbach, Ph.D.**  
Registration No. 40,211

Surinder Sachar  
Registration No. 34,423

Customer Number

**22850**

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(OSMMN 05/03)

DOCKET NO.: 271227US2XPCT

**IN THE UNITED STATES PATENT & TRADEMARK OFFICE**

IN RE APPLICATION OF: Samuel BOUTIN et al.

SERIAL NO. : 10/532,080

FILING DATE: April 21, 2005

FOR: METHOD AND DEVICE FOR SYNTHESISING AN ELECTRICAL  
ARCHITECTURE

**RESPONSE TO NOTICE OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371**

COMMISSIONER FOR PATENTS

Box PCT

Alexandria, VA 22313

SIR:

Responsive to the notification dated September 12, 2005, and in accordance with the provisions of 35 U.S.C. 371, Applicants submit herewith an English translation, a Rule 63 Declaration, a Declaration of Christophe DANG-VAN-NHAN, and a Preliminary Amendment.

As a result of the Preliminary Amendment, no multiple dependencies remain in the claims.

The Rule 63 Declaration being filed herewith is accompanied by an English translation.

The translation is accurate (37 CFR 1.69.)

In light of the foregoing, this application is deemed to be in proper condition for examination and such favorable action is earnestly solicited.

Our payment in the amount of \$-0.00- is attached hereto. If any variance exists between the amount enclosed and the required Government fee, please charge or credit the difference to our Deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.

If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. §1.136 and any additional fees required under 37 C.F.R. §1.136 for any necessary extension of time may be charged to Deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.



Marvin J. Spivak  
Attorney of Record  
Registration No. 24,913  
Surinder Sachar  
Registration No. 34,423

Corwin P. Umbach, Ph.D.  
Registration No. 40,211

Customer Number  
**22850**

(703) 413-3000



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
 www.uspto.gov

U.S. APPLICATION NUMBER NO.

10/532,080

FIRST NAMED APPLICANT

Samuel Boutin

ATTY. DOCKET NO.

271227US2XPCT

INTERNATIONAL APPLICATION NO.

PCT/FR03/03109

I.A. FILING DATE

10/21/2003

PRIORITY DATE

10/21/2002

22850

OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.  
 1940 DUKE STREET  
 ALEXANDRIA, VA 22314

ET

CONFIRMATION NO. 6201

371 FORMALITIES LETTER



\*OC000000016943720\*

Date Mailed: 09/12/2005

### NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 04/21/2005
- Copy of the International Search Report filed on 04/21/2005
- Information Disclosure Statements filed on 06/24/2005
- Request for Immediate Examination filed on 04/21/2005
- U.S. Basic National Fees filed on 04/21/2005
- Priority Documents filed on 04/21/2005

RECEIVED: 9/13/05  
 OBLON, SPIVAK, MCCLELLAND  
 MAIER & NEUSTADT, P.C.  
 DOCKETING DEPT.

Initials/Date Docketed: dp 9/13/05  
 Type of Resp(s): Transl/DECL  
 Due Date(s): 11/12/05

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Translation of the application into English. Note a processing fee will be required if submitted later than 30 months from the priority date.
- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.

**ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

A copy of this notice **MUST** be returned with the response.

PATRICIA A BOOKER

Telephone: (703) 308-9140 EXT 204

PART 1 - ATTORNEY/APPLICANT COPY

| U.S. APPLICATION NUMBER NO. | INTERNATIONAL APPLICATION NO. | ATTY. DOCKET NO. |
|-----------------------------|-------------------------------|------------------|
| 10/532,080                  | PCT/FR03/03109                | 271227US2XPCT    |

FORM PCT/DO/EO/905 (371 Formalities Notice)